

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	"20010008411".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/03/01 11:49
S2	26	("5367324" "5808640" "5400063" "20020140772" "20020140779" "20020180839" "20030063161" "5648804" "6398347" "6491377" "6536877" "6543883" "6318828" "6422676").pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/07 10:30
S3	14	("5367324" "5808640" "5400063" "20020140772" "20020140779" "20020180839" "20030063161" "5648804" "6398347" "6491377" "6536877" "6543883" "6318828" "6422676").pn. and (resistor with (heat\$3 or thermal\$2)) same substrate	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/08 15:27
S4	11	("5367324" "5808640" "5400063" "20020140772" "20020140779" "20020180839" "20030063161" "5648804" "6398347" "6491377" "6536877" "6543883" "6318828" "6422676").pn. and (resistor with (heat\$3 or thermal\$2)) same substrate same (feed\$3 or nozzle\$3 or fir\$3 or eject\$3 or print\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/08 15:28
S5	2	("5367324" "5808640" "5400063" "20020140772" "20020140779" "20020180839" "20030063161" "5648804" "6398347" "6491377" "6536877" "6543883" "6318828" "6422676").pn. and (resistor with (heat\$3 or thermal\$2)) same substrate same (feed\$3 or nozzle\$3 or fir\$3 or eject\$3 or print\$3) same (conductor)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/08 15:36
S6	2	"20050231562"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/22 08:09

## EAST Search History

S7	2	"20050231562" and (resist\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/22 11:09
S8	26	("5367324" "5808640" "5400063" "20020140772" "20020140779" "20020180839" "20030063161" "5648804" "6398347" "6491377" "6536877" "6543883" "6318828" "6422676").pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/22 11:41
S9	23	S8 and (resist\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/22 08:10
S10	17	S8 and (resist\$3) and (conduct\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/22 09:38
S11	5	S8 and (resist\$3) and (conduct\$3) and (switch\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/22 10:37
S12	1	("6491377" or "5808640").pn. and (FET or transistor or switch\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/22 10:41
S13	1	("6491377" or "5808640").pn. and (FET or transistor or switch\$3) and conductor and resistor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/22 10:45
S14	1	("6491377" or "5808640").pn. and (FET or transistor or switch\$3) same conductor same resistor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/22 10:55

## EAST Search History

S15	4	("6491377" or "5808640").pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/22 10:55
S16	3	("6491377" or "5808640").pn. and conductor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/22 10:58
S17	3	("6491377" or "5808640").pn. and conduct\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/22 11:00
S18	3	("6491377" or "5808640").pn. and conduct\$3 same (feed\$3 or print\$3 or nozzle)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/22 11:01
S19	2	"20050231562" and (resist\$3) and conductor and feed	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/22 11:09
S20	38784	"20050231562" and (resist\$3) conductor same feed	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/22 11:10
S21	2	"20050231562" and (resist\$3) and conductor same feed	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/22 11:11
S22	2	"20050231562" and conductor same feed	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/22 11:23

## EAST Search History

S23	0	"347"/\$3 and (resistor\$1) with (first and seconda and third and fourth and fifth)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/22 11:24
S24	0	"347"/\$3 and (resistor\$1) with (first and seconda and third and fourth and fifth and sixth)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/22 11:24
S25	35	"347"/\$3 and (resistor\$1) with (first and second and third and fourth and fifth and sixth)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/22 11:38
S26	36964	torgerson.in. or benjamin.in. or axtell.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/22 11:38
S27	6	("5367324" "5808640" "5400063" "20020140772" "20020140779" "20020180839" "20030063161" "5648804" "6398347" "6491377" "6536877" "6543883" "6318828" "6422676").pn. and conductor same (conduct\$3 and resist\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/22 11:44
S28	4	("5367324" "5808640" "5400063" "20020140772" "20020140779" "20020180839" "20030063161" "5648804" "6398347" "6491377" "6536877" "6543883" "6318828" "6422676").pn. and conductor same (conduct\$3 and resist\$3 and layer)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/22 11:42
S29	1	("5367324" "5808640" "5400063" "20020140772" "20020140779" "20020180839" "20030063161" "5648804" "6398347" "6491377" "6536877" "6543883" "6318828" "6422676").pn. and conductor same (conduct\$3 near3 layer\$3 and resist\$3 near layer\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/22 11:47

## EAST Search History

S30	2	("5367324" "5808640" "5400063" "20020140772" "20020140779" "20020180839" "20030063161" "5648804" "6398347" "6491377" "6536877" "6543883" "6318828" "6422676").pn. and conductor same (conductive and resistive)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/22 11:47
S31	4	("5808640" "6491377").pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/27 11:11
S32	1	10/827030	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/27 14:34
S33	1	10/827030 and (switches same resistor)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/27 09:16
S34	4862	layer same resistor same switch	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/27 08:39
S35	32	layer same resistor same switch and "347"/\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/27 08:39
S36	1	("5808640" "6491377").pn. and resistor same (switch)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/27 09:16
S37	2	("5808640" "6491377").pn. and resistor same feed	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/27 09:27

## EAST Search History

S38	1	10/827030 and (feed same resistor)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/27 09:25
S39	1	10/827030 and (feed same resistor same opposing)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/27 09:25
S40	2	("5808640" "6491377").pn. and (vaporize or vaporization or vaporiz\$3 or evaporat\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/27 11:12
S41	2	("5808640" "6491377").pn. and (vaporize or vaporization or vaporiz\$3 or evaporat\$3 or vapor)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/27 11:31
S42	1	("5808640" "6491377").pn. and (vaporize or vaporization or vaporiz\$3 or evaporat\$3 or vapor) same primitive	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/27 11:54
S43	3	("5808640" "6491377").pn. and (conduct\$3) same isolat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/27 12:52
S44	2	("5808640" "6491377").pn. and (resistor same chamber)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/27 13:48
S45	3	("5808640" "6491377").pn. and (resistor same conduct\$3 same current)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/28 11:39

## EAST Search History

S46	1	("5808640" "6491377").pn. and (generator same fir\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/27 14:48
S47	1519	conductor with conductive with resistive	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/28 11:34
S48	18	conductor with conductive near layer with resistive near layer and "347"/\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/28 11:35
S49	1	("5808640" "6491377").pn. and (current same (switch and conduct\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/28 12:01
S50	11	"347"/\$3 and (conductor with current same switch with current)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/28 11:47
S51	56	"347"/\$3 and (conductor with feed\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/28 11:47
S52	21	"347"/\$3 and (conduct\$3 with current with feed\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/28 11:47
S53	2	("5808640" "6491377").pn. and (current same (conduct\$3) same (fluid or feed or ejector or nozzle or head or print\$head))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/28 11:52

## EAST Search History

S54	13	"347"/\$3 and (fir\$3 near line) same (energy near3 (signal or puls\$3)) and (energy near3 (signal or puls\$3)) same (nozzle or orifice or (drop with generat\$3) or print\$head or head)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/28 11:57
S55	241	axtell.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/28 11:57
S56	3	("5808640" "6491377").pn. and (puls\$3 or energy or signal)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/28 12:02
S57	2	("20020093551" "20020060722").pn. and (fir\$3 near line) same (signal or puls\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/28 12:47
S58	0	("20020093551" "20020060722").pn. and (fir\$3 near line) same (generat\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/28 12:47
S59	0	("20020093551" "20020060722").pn. and (fir\$3 near line) same (generat\$3 or feed\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/28 13:17
S60	0	("20020093551" "20020060722").pn. and (fir\$3 near line) same (layer\$3 or conduct\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/28 13:20
S61	0	("20020093551" "20020060722").pn. and ( line) same (layer\$3 or conduct\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/28 13:20

## EAST Search History

S62	2	("20020093551" "20020060722").pn. and ( FIRE) same (layer\$3 or conduct\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/28 13:21
S63	3	"347"/\$3 and (fir\$3 near line) with (puls\$3 or signal) and (fir\$3 near line) with (conduct\$3 and layer)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/28 13:31
S64	7	"347"/\$3 and (fir\$3 near line) with (conduct\$3 and layer)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/28 13:32
S65	4	("5808640" "6491377").pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/29 11:38
S66	1	10/827030	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/29 15:12
S67	2	"20020135640"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/29 15:17
S68	3005	347/19	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/29 15:31
S71	2	"5808640".pn. and (conduct\$3 same current)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/04/03 08:47

## EAST Search History

S72	2	"6290333".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/11/07 09:03
S73	925	"347"/\$3 and (substrate and conduct\$3 same resistor\$1) and (resistor same heat\$3 same substrate)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/11/07 09:16
S74	440	"347"/\$3 and (substrate and conduct\$3 same resistor\$1) same (resistor same heat\$3 same substrate)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/11/07 09:18
S75	25	"347"/\$3 and (substrate and conduct\$3 same resistor\$1) same (resistor same heat\$3 same substrate) same switch\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/11/07 09:44
S76	1	10/827030	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/11/07 11:00
S77	81	"347"/\$3 and (substrate and conduct\$3 same resistor\$1) same (resistor same heat\$3 same substrate) and (resist\$3 same switch\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/11/07 09:44
S78	122	"347"/\$3 and (substrate with fluid with feed with slot)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/07 10:35
S79	88	"347"/\$3 and (substrate with fluid with feed with slot) and (resist\$3 same (slot or substrate)) and (conduct\$3 same (slot or substrate))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/07 10:36

## EAST Search History

S80	18	"347"/\$3 and (substrate with fluid with feed with slot) and (resist\$3 same (slot or substrate)) and (conduct\$3 same (slot or substrate)) and (switch\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/07 10:36
S81	5	"347"/\$3 and (substrate with fluid with feed with slot) and (resist\$3 same (slot or substrate)) and (conduct\$3 same (slot or substrate)) and (switch\$3 same resist\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/07 10:41
S82	1	"6478410".pn. and (resist\$3 same current)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/07 10:45
S83	1	"6478410".pn. and (conduct\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/07 10:45
S84	1	"6478410".pn. and (resist\$3 same current) and conduct\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/07 10:46
S85	1	"6478410".pn. and (resist\$3 same current) and ((conduct\$3 or coupling) same resistor)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/07 10:55
S86	1	"347"/\$3 and (conduct\$3 with (fluid near feed) with resist\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/11/07 11:03
S87	2	"347"/\$3 and ((conduct\$3 or coupl\$3) with (fluid near feed) with resist\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/11/07 11:04

## EAST Search History

S88	88	"347"/\$3 and ((conduct\$3 or coupl\$3) with ((fluid near feed) or slot or opening) with resist\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/11/07 11:05
S89	23	"347"/\$3 and ((conduct\$3 or coupl\$3) with ((fluid near feed) or slot) with resist\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/11/08 08:31
S90	7	"347"/\$3 and ((conduct\$3 or coupl\$3) with ((fluid near feed) or slot) with resist\$3) with (between or through or below or throughout or underneath or top or bottom)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/11/07 12:22
S91	2	"5808640".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/11/08 08:32
S92	24	("4339762"   "4887098"   "5157418"   "5198834"   "5274400"   "5387314"   "5477243").PN. OR ("5808640").URPN.	US-PGPUB; USPAT; USOCR	AND	OFF	2006/11/08 08:44
S93	2	("6478410" or "5808640").pn.	US-PGPUB; USPAT; USOCR	AND	OFF	2006/11/09 08:45
S94	1	("6478410" or "5808640").pn. (switch\$3 same (conduct\$3 or coupl\$3))	US-PGPUB; USPAT; USOCR	AND	OFF	2006/11/08 09:13
S95	1	("6478410" or "5808640").pn. (switch\$3)	US-PGPUB; USPAT; USOCR	AND	OFF	2006/11/08 09:51
S96	2	("6478410" or "5808640").pn. and resist\$3 same heat\$3	US-PGPUB; USPAT; USOCR	AND	OFF	2006/11/09 08:54
S97	2	("6478410" or "5808640").pn. and resist\$3 same current	US-PGPUB; USPAT; USOCR	AND	OFF	2006/11/09 09:09
S98	1	("6478410" or "5808640").pn. and resist\$3 same current same heat	US-PGPUB; USPAT; USOCR	AND	OFF	2006/11/09 08:54
S99	2	("6478410" or "5808640").pn. and resist\$3 same current same heat\$3	US-PGPUB; USPAT; USOCR	AND	OFF	2006/11/09 08:54

## EAST Search History

S10 0	2	("6478410" or "5808640").pn. and resist\$3 same current same conduct\$3	US-PGPUB; USPAT; USOCR	AND	OFF	2006/11/09 09:09
S10 1	2	("6478410" or "5808640").pn. and. resist\$3 same current same (conduct\$3 or coupl\$3)	US-PGPUB; USPAT; USOCR	AND	OFF	2006/11/09 09:30
S10 2	2	("6478410" or "5808640").pn. and current	US-PGPUB; USPAT; USOCR	AND	OFF	2006/11/09 09:37
S10 3	2	("6478410" or "5808640").pn. and current same (second or another)	US-PGPUB; USPAT; USOCR	AND	OFF	2006/11/09 09:44
S10 4	0	("6478410" or "5808640").pn. and gat\$3	US-PGPUB; USPAT; USOCR	AND	OFF	2006/11/09 09:44
S10 5	117	"347"/\$3 and (resist\$3 with (fir\$3 or eject\$3 or print\$3)) and (conductor with current with resist\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/02/28 09:20
S10 6	75	"347"/\$3 and (resist\$3 with (fir\$3 or eject\$3 or print\$3)) and (conductor with current with resist\$3) not silverbrook	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/02/28 10:01
S10 7	58	"347"/\$3 and (resist\$3 with (fir\$3 or eject\$3 or print\$3)) and (conductor with current with resist\$3) and (driv\$3 or switch\$3) not silverbrook	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/02/28 10:03